River

Inaugural Essay 011

(SUSPENDED ANIMATION For Che

M.D. Paped March 28th

Sohn Chapman

Introduction.

In the first down of physiological learning, it might pahops have opposed voin and paramptacus, to attempt astering to animation; an apparently duad loody

But is no non have, that the characteristick signs of ligand dusti an efter observer if me couply judiquelies, and that we can the whole celeving to preserve, this is vitabily, or that is dustly as we are absentions, that the more obvious approximates of life many be suspended, without its being commobiled it terms an act of commobility to neglect any effect terms an act of commobility to neglect any effect terms about in cases of the audience, in the suspendicion of what action.

Shall we refuse to such the warm askes for a spark, which may refund to a genual blaze, and give new

Sheet lip can exist as it were in a latint state, for sometime and still remain capable of bring rewell into action, and to produce all its phenomena, is atablished by facts to numerous and incentialible.



as to rendu the altempt to prove it superfluence.

St must however be acknowledged that all efforts at sourcetation are often ineffectual, over in cases where submerim
has not long existed. It becomes then is question of much
instanst und importance to be assured, within in their
instans, the finiture is not to be altiviated to a refree in
the mothest non-employed for nevery, or a telah extinotion of their

haspen and the a of the From co This ;

Surfrenched Chrimentien from Diononing I whalf encountered with searchaining the proximate ensure of the disease front und of deciming, examining the sets of the with your, or that we may four indicating of our. In this set of drawing the circulation beames gradually wan feeld and stone, and much one with a fell about the foresides to return which the foresides to return which the foresides

water, he then studying a fooling of water, when he againstude after stringling in this manner for a short time, envantaine after stringling are to set, and he at but expression event to set, and he at but express, some after which the shin beauts of a people or blue exists particularly about the face and neck and the bedginks.

From considering that a demond furance is surrounded by water include of arrand that in this situation his modes along and repeated efforts to breath; we should expect that the with would enter, and emploitely fell the lawys.

This opinion indeed was one very general, and all continues to prevail among the enumer people, but defending have farmen to the entury for after devicing

there is to Jucas wit black There a bun satiret alle ted in day and ests with edward fluid, little was fund in their beings afron seasuration; this circumstance may readly be accounted for by accollecting that the animals subsick from the opening outs the bracker are exquirelely sensible and contact violatly upon the least irritation, as we frequently experience, when any fact of the food or drink happens to enem in contact with them, but often animation has been gover for owner time. They relay and the lungs become filled.

"If the theme he immediately opened, the heart will be found embacking one obly expending the makinds and mariety of the right with which are distincted with stack blind, while the left embacks to amount principles which thereigh the bline wides of the availed appears also that. The cause, and all the deep sector wine are also distincted

with black blood .

These appearances, show that the circulation has been entirely surficiented, and from the blood being collected in the right side of the beaut, that a remna

tity is for of ction , miriale proluce Fare . m. feete in other . had occured, to its prapage through the lungs.

These eyen are generally fund in a state of genetic in life collisper At him they are ent into a fieldy fluid way frequently is found in the actions burnehind calls, beautisticing that assual forelism of water has franchistated into themse buffers of proceed, secondaries the guarantity is always encolly ought in these cases where they have been some line under water. They have been some line under water, I have a large guarantity is foreign a large guarantity is foreign.

The hair, where furnition is early surpresent in this affection appears to be seenly natival, a little serve engaged in its observed in the opening of the fire materithms subjects who have been glacuse, which did not materially affect this organ, though surfacefurent to further any will enverynees.

There can be kille - doubt, that the death induced either by denoming a hanging, does not proceed from an affection of the brain, and indeed I believe death in either case, to be entirely independent of the brain;

min

and that the quarter or left engagement of this organ, does not hasten a retard it one moment.

I shall now proceed to the hast mode of resuscitation, according to the indications that have been formulaed,

section.

June of To mes body is obs ing to U on time to unas vidal

The mode of Resuscitation or Gune.

persons; has varied at different periodis.

The remedies, which have been employed have frequently tended more to the total extinction of life that might have been, tooften marked by empiricism; the invariable consequeues of principle being deserted or despised in practice.

I shall now proceed to the indications of cure, advising them only to be employed, which I have thought weeful, and

rejecting the rest.

The means which are first to be resorted to, as soon as the body is obtained from the water, consist merely in convey ing it to the nearest habitation, and placing it in an airy room, in which a small fire may be hindled; the clother are there to be taken off as speedily as possible, and the body wified dry with warm doths or flaunch, but with no more agitation or friction to the body than is absolutely unavoidable. It is then to be placed on a table overspread

1) Vile 1 cho ot · cia is sport he % t, 16 by the is Jumb, to a tion, The first by the fold word tub extr mety with blankets, and with a feather bed; and the body is also to be covered with warmed blankets.

While these proposations are unding, makind assistance about the surging to the human secrety, about the kingle from the nearest plan of deposite. So when becomes should be beginned until a player cian is foresent, if there has a freelibility of one being even for foresent, if there has a freelibility of one being expected by foreserved. When a following his arrived at the affects has about the following the mention of the second of

First, the decarbonization of the blood, which is to be obtained by the inflation of the langer.

Swards, these which stimulate immediately, the vital organs to action, and also the system generally.

The first alone of remedies which is the decorbinisation of the bleed by the inflation of the lung, may be best obtained by the fellowing appearatus; which consists of a small every line to be introduced into the bracker, curved at the extremely which goes into the faces. Couch a vice as

Columns discribed), and having the end which preservate tracker, we all and read on flattered on its in wise. I payer having this of war, hard smuth substance, we a firm budy can be payer with more one into the trackers, then one which if for while, the sund of this tester which projects from the most info within the project of our the most in fact, where the project of the state which projects for the most, to work to be not of a brather tisk, where appeared to the first under the sund of a deather to the fifty of a deather bellower.

This is some eligible than this common verigle beltows securally employed; for with it an artificial sufficiency, admired as the natural can be employeded. But with this single bellows the use of the ticks is not attained by fire ticks is not attained by for it much be necessary tack time emprosion is made in the though, in order to effect on expedition of the six it entains, to resume the longer unsuress the leasts.

The inconvenious resulting from this is obvious, and if the take he not employed, the lungs cannot be so employed, you so easily inflated, and I have known the said to pap

10 riest is the Whary I this for vented he troyed 3. prin na tus, is, revent for he wishes were it to De follos

ests the stream and entering but the despress by neglect in not preciously the largest strongly against the serviced weetling by subject means the lower part of the phrayung is high aloved, and the introduction of any avoided.

If this presention be neglected, and the absormed he was time and tympositie, the descent the forming respirapresented and a formisful means of performing respiration; indeed an indespressable some to old persons, is distroyed.

The formapal objection to the above mentioned apparatus, is, that there is some difficulty in introducing and before the fact in the species before properties with its structure and situation of the fact; can set fail in succeeding to plan it in the situation for above to presense it there.

The following directions, however, may assist to attain a knowledge of the proper manner of introducing it.

itakes they igh The ofen The tong the much should be opened to its itsment extent, and the longer drawn forwards. The properties can then hederline by presenced, the trugger will mostly remain in this southernow, if not, it may be relatined by an assistant, the fire forger of the life band, (if stancing on the nightered is to be introduced into the passes, one is to be placed our the opposite, which should not be passed of men in the opposite, which should not be passed that in the right band, by factors of the glottles, then, holding the table in the right band, by factors of the opposite of the ground of the species of the day, until it has been forger the project of the experience of the first has a contract our place the extensity of the table into the opening of the glottles.

The tropic is then to be feet back into it natural sitter ation, are assistant, standing at the head of the petind should held the ticke to prevent its falling from the glottes; and nather push it down and perward.

The flexible letter tube attacked to the bellow, should be servered to the every one; and inflation should be incrediately commerced.

obligate o it key dese the other fea yright. part of 2 sir poor attend. believis tibe who should n If this apparatus cannot be obtained, nearpity will obligate the use of that, which is at bank, and can be directly employed.

of common belian is to be proused, the pipe of which is to be fixed out one of the notice, which is to be computed in the fixed out one of the notice, which is to be computed in the state of the pipe the annul shat with his other hand. another assistant for fire the language strong against the coronal vertiles, by which means the time part of the festingues is dept closed, these presenting the air from going out the stronged and before mentioned, as third and forther for the stronger on stock, one on each side of the festions, are to make empression with their hands on the things, whenever it is completely distinguished the physician is an assistant belong the

The atmosphericair by which the lungs are inflated might to be as pure as can be obtained, to this and, no more present should remain in the room, then are variety for existence.

witeau dire tion use late

If it should be night, on more earder or lamps should be used than me receiving if the weather be not too rold, the windows may be raised, to pursuit a free circulation of air.

The most indication is to increase the heat and mitability of the entaneous system, causing it, as it were to assist belove from the deep seated parties this may be done by accepting the body in blandets is troughly writing out of worm beine must by date and venegars, and removing them as this grow cold, this is much to be prefered to the warmbath, as it can be carried onat the same time the lange are infa-

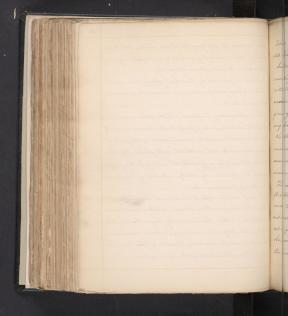
The next indication, is to alimitate the witest organists action their way be done by Edickeely in the following manner and rate shocks may be faced in different directions through the body gradually increasing them I link it a better plane to leave the body provincely link it a better plane, to leave the body provincely insulated, and clerkifed senantly (but this is not about you convenient for the want of apparatus)

elway tengil The manner of applying the electric shocks, I shall say, nothing about; it being so simple, and supposing every plugicaline to understand it perpetly.

I think it quite likely that the Gabranic file would answer a very good purpose; and thin methods should always be tried.

Some stimulating biniment rubbed on the wrist, and he brighted, and the parts of posite to the stimulation and harts; has been recommended, one empreed of again front of agus animonia and salled at well shadom together, would appear to be sufficiently elimilating for the furgion and as it cooperates very along, will admit of being rubbed on with other transactions and as

I shall now proceed to the internal remarker, The intertains from their internal solution and punchs condition to retain their incitability larger than the ellip forts of the body, and accordingly, arrives must have been approved for increasing the action of this fisher, in most to retain the actions, of the works question.



John works injected by may of electra his bun remnumed, but I think this a smilety of new orders remedy. Smilet of teleurs senicle, Smilet of teleurs senicle, Smilet recommend a abject, counting of a facility or many of matter metastily manual, with the addition of one or time table appropriately of against manual and a tengingful of strong simulators in depart of one of these of these, had a gill a same of runs, brainly, organizing be added.

Is the stoward is a highly sensible organ, and intimately consented with the heart and brain, the introduction of some moderately mann, and obtainstating ligare into its seems will extended it rouse the domaint femore of life.

This is may conveniently done by means of a symmeton flexible tube, the possible of files therein is near he were to exceed hope a finely and may be confined of wine and water a effect of much best you must be early not to give turnich at a time.

As soon with fulse or beating of the heart can be felt, the inside of the northills may be occasionally touched

with a feather lift in agus amme, it fairs found by experience, that any irritating given to the new, has emistered to influence in exciting the action of the much, encurred in respiration

It am the natural breething commences the cannot clouds be with trainers may further inflation that may be needered; "Tenformed by blowing into the metal. Blood litting has been generally thought requisition away case of empowed minution the practice however, does not appear to have been founded on a national principle at first, and it has been entired from the force of eastern, rather than from any experience of its good effects, the greating of blood that can be drawn from the external venus said not exceeding diminish the assumentation of it is those meant the drawn of it is those meant the beaut.

Besides, blood-letting, which generally study to before the action of the heart and arteries in the living body, example be supposed to been a directly opposite effect, in a case of despended animation; on the entray if

employed here, it will harard the entire distruction of those feeble powers which yet remain, and to increase and suffert which all our endeavours should be stead,

I think dry enfer may be employed with advantage.

Maken the patient is so far recovered as to be able to swallow, he should be feet into a warm bed, with his head and shoulders somewhat raised by means of nourishing drinks, should now be given, and gentle sweating promoted, by wrapping the feet and legar in flamuels well arrang out of heat brine, as before directed. If the stomach and bowels, feel distended and uneasy, table sprouful of common salt, or an owner of glaubers

but considering that the powers of the system are

the ren hicese the we function E the will very weak, the excitation of rouniting is certainly hear-

The factions should on an account be lift atms, untill
the senses are freefelly restrict, and he is able to anist
becausely; serveral chances religious, and here able to anist
becausely; serveral drawing religious, after the west
functions were, it all opperance completely exhibited
functions were, it all opperance which the activity of the law,
Either from disclosure which the activity of the law,
have differed, or from sudden change from great cellnext to considerable warreth, it was made the happing,
that the factions is attached, come after receiving, with
inflamitation of some of the fracts of the about;

This recurrence is principle out by fruit in the beaut one sittly concerned on importation, and accompanied with operations of which produced with cough from the arms of any other than the arms or day. Then the taking according from blue affects on the arms or day the application of authorized play beginning in the application of authorized generally be proper.

Dull pain in the head lasting soutimes for two or

oftice WX 6 Here days, is by no mous incommon in their who as recovered from this and from the other state, of emponded animation, here a understo bleeding from the medicial with the houself, or by enjoying, may from sessionally. Thus means should be provided in for two or three hours at least shout their continuous for a greater built of time would be proper; as it is impossible to determine accorately, the mounts of these without high has entirely consider so as to be of longer recalled.

While therefore the most distant hope remains, that life can be restored, it is an act meriting the services sensure, it is a measure almost amounting to a crime to decide from exection.

I cannot terminate this efony, without acknowledgeerry the unany obligations, under which I have the befores of the deminerally, for the instruction I have derived from their truly walcalds becture, and for this wellingging to insport information.

That they may long continue the ornaments of the

chairs, which they now fill with annually increasing fame to their pupil, and advantage to their pupil, is my fervent wish.

